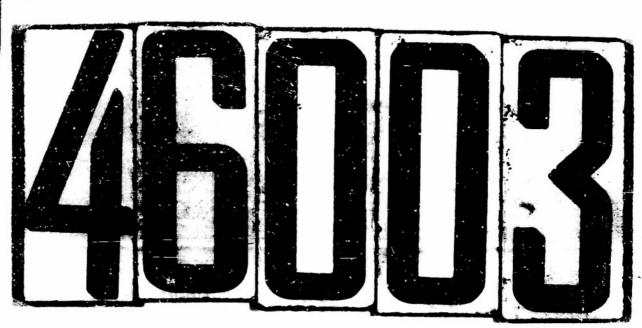
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NATIONAL DEFENSE CONTRACT

MONTHLY PROGRESS REPORT NO. 6
PRODUCTION REFINEMENT OF SHF-BAND
HIGH-FREQUENCY TRAVELING-WAVE TUBES
Contract No. AF33(600)-26110
June 1954

CASE NOS: 4-13-95 4-13-96

500 WASHINGTON AVENUE NUTLEY 10, NEW JERSEY

COPY NO. / 3

Prepared By: A. B. WOLP

Approved By: A. K. WING, JR., Laboratory Head

AIR MATERIEL COMMAND
WRIGHT-PATTERSON AIR FORCE BASE, DAYTON, OHIO

MONTHLY PROGRESS REPORT NO. 6

PRODUCTION REFINEMENT OF SHF-BAND HIGH-FREQUENCY TRAVELING-WAVE TUBES

During this report period various items of special test equipment were received, with work being directed toward its rearrangement and installation.

The hydrogen firing furnace, r-f bombarders, assembling and bell jar brazing benches were received according to schedule.

Work is continuing on the installation of the air filtering and conditioning unit for which space is being made available.

During the laboratory vacation shutdown, July 19th through August 2nd, the rebuilding and reinstallation of the tube assembling area will be completed according to the floor plans outlined in the Special Engineering Report. Construction of the furnace and chemical cleaning areas has been completed, and equipment installation is now in progress.

Development of the broad-band sweeper is continuing without major design modifications being contemplated. Work has been completed on the life-test and low-noise-tube test sets. Fabrication of the higher power traveling-wave tube life and test sets has been initiated.

Tests were conducted on miniature coaxial lines and connectors in regard to VSWR versus frequency characteristics.

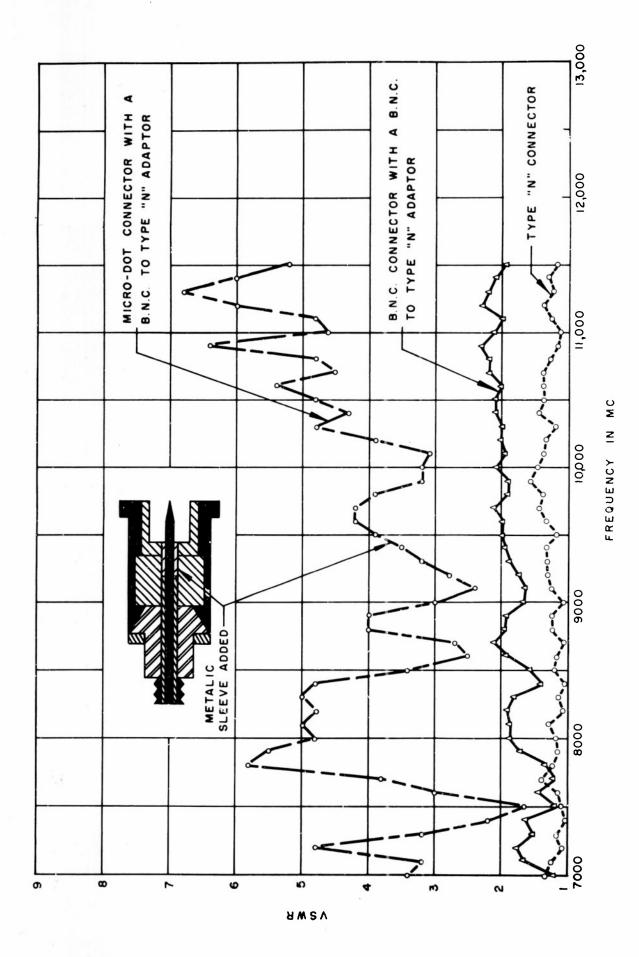
A comparison was made between the Type "N" and BNC Micro-Dot Adapter.

These may be noted in Figure 1. From the results achieved to date it is apparent that the miniature connectors are not suitable for tube application without further engineering modifications.

The present status of work completed, scheduled for completion, and estimated time of completion can be seen in Figures 2 and 3.

ILLUSTRATIONS

Fig. No.	<u>Title</u>
1	VSWR Versus Frequency for Type "N" and Micro-Dot Connectors
2	Schedule and Status for Rearrangement and Installation of New and Existing Facilities and Equipment
3	Engineeriag Status and Schedule



MICRO-DOT CONNECTORS UNA ..N. TYPE FREQUENCY FOR VERSUS VSWR F16.

		1954						
	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG
RELOCATION OF ENGINEERING AREA			0					
INSTALLATION OF GLASS-WORKING ROOM								
INSTALLATION OF FURNACE AND CHEMICAL CLEANING					8			
INSTALLATION OF ASSEMBLY ROOM						U		
PREPARATION OF EXHAUST, LIFE TEST, INSPECTION, AND MACHINE SHOP AREAS								

CTTT WORK COMPLETED

SCHEDULED COMPLETION OF WORK

ESTIMATED COMPLETION OF WORK

SCHEDULE AND STATUS FOR REARRANGEMENT AND IN-STALLATION OF NEW AND EXISTING FACILITIES AND EQUIPMENT F16. 2

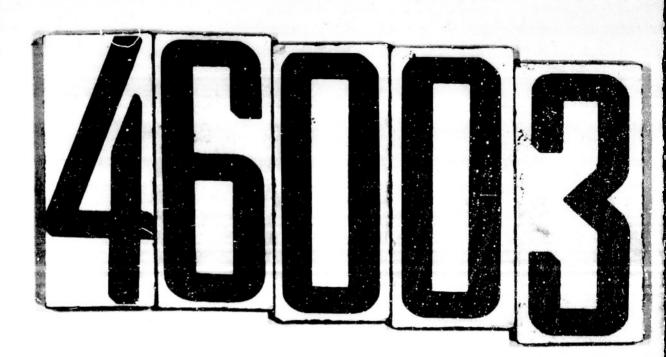
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						2000	000	2	-	3	2	DEC	A N	F.E.B	M A R	APRIL	MAY	JUNE
STUDY OF NEW DETAILS OF CONSTRUCTION												,						
STUDY OF NEW DESIGNS FOR SIMPLIFICATION OF CONSTRUCTION																		
PROCUREMENT AND CON- STRUCTION OF TEST EQUIPMENT												1					•	
FABRICATION OF SAMPLES OF SIMPLIFIED DESIGNS										•					· · · · · · · · · · · · · · · · · · ·			
DEVELOPMENT OF PRO- DUCTION TECHNIQUES AND PROCEDURES																		
PILOT-PRODUCTION TUBES AND MODIFICATIONS IN DESIGN																		
RUN OF PILOT-PRODUCTION SAMPLES			WORK C	WORK COMPLETED SCHEDULED COMP	E D R P L E T I ON	٥							· · · · · · · · · · · · · · · · · · ·					
PREPARATION OF MANU- FACTURING SPECIFICA-			ESTIMATED	ATED COMP	MPLETION	9	¥ OR K						2					

FIG. 3 ENGINEERING STATUS AND SCHEDULE

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